

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/IL05/00219

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: H04B 7/185( 2006.01);G01S 1/02( 2006.01),5/14( 2006.01),3/02( 2006.01);G01C 21/26( 2006.01)

USPC: 342/357.09,357.1,385,457,463,465;701/207,213;340/572.1;356/3.01,3.1,614,623  
According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 342/357.09,357.1,385,457,463,465; 701/207,213; 340/572.1; 356/3.01,3.1,614,623

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
East; IEEE; Google

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6512478B1, Chien, Jan. 28, 2003; Figures 2A-4A.	1-3, 5, 7, 9, 12, 22, 25, 28, and 30
Y		10-11, 15-16, 21, 29, 31-32
X	US 20040017313A1, Menache, Jan. 29, 2004; figures 1-3, Abstract.	1-3, 7, 12, and 25
Y		5, 9-11, 15-17, 19-22, 28-33
Y	US 6204813B1, Wadell et al, Mar. 20, 2001; Abstract, col. 6 lines 36-54.	15-16, 21, 31-32
Y	US 6640253B2, Schaefer, Oct. 28, 2003; Abstract, col. 1 line 45 - col. 2 line 33.	10-11, 29

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
•	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Z"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 17 July 2006 (17.07.2006)	Date of mailing of the international search report 07 NOV 2006
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Q. W. Widermann, Jr.</i> Isam Alsomir Telephone No. 866-217-9197

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Continuation of Item 4 of the first sheet:  
**A SYSTEM AND A METHOD FOR PERFORMING WIRELESS MEASUREMENTS BY MEANS OF A PORTABLE COORDINATE SYSTEM**

**BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING**

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In order for more than one species to be examined, the appropriate additional examination fees must be paid. The species are as follows:

Ia) the species of claim 3.	Ib) the species of claim 4.	
IIa) the species of claims 5 and 28.	IIb) the species of claims 6 and 26.	IIc) the species of claims 7 and 27.
IIIa) the species of claim 12.	IIIb) the species of claims 13.	IIIc) the species of claim 14 and 24.
IVa) the species of claim 17 and 33.	IVb) the species of claim 18 and 34.	

The International Searching Authority shall establish the international search report on those parts of the international application which relate to the invention first mentioned in the claims ("main invention" including Ia, IIa, IIIa, IVa plus the generic claims below) and, provided the required additional fees have been paid within the prescribed time limit, on those parts of the international application which relate to inventions in respect of which the said fees were paid.

Applicant is invited to pay for the additional group(s) to be searched: applicant may choose one additional group ([Ib, IIb, IIIb, IVb], [Ib, IIc, IIIc, IVb], [Ib, IIc, IIIb, IVb], or [Ib, IIc, IIIb, IVb] as one additional invention), or all the claims which would be two additional inventions.

The following claim(s) are generic: 1, 2, 8-11, 15, 16, 19-23, 25, 29-32.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Regarding Ia,b) having the geometric shape a surface (claim 3), or an opening (claim 4) are both mutually exclusive and do not correspond to the same special technical feature.

Regarding IIa,b,c) initializing the collector by GPS (claims 5,28), or "by at least one field beacon applied to the three reference points" (claims 6,26), or "in relation to at least three non-coplanar field beacons" (claims 7, 27); all are mutually exclusive and do not correspond to the same technical feature.

Regarding IIIa,b,c) RF (claim 12), ultrasonic (claim 13), and laser (claim 14,24) communication are all mutually exclusive and do not correspond to the same special technical feature.

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Regarding IVa,b) surveying surrounding before construction (claims 17,33) and surveying surrounding under construction (claims 18,34) are both mutually exclusive and do not relate to the same special technical feature.